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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			
09/913,350	00/10/000	THE THANED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION N	
09/913,330	08/13/2001	Arnaud Doat	PF 93 PCT US	8605	
25666	7590 10/25/2004		EXAM	INER	
500 COLUM	OF HUESCHEN AND	SAGE	CHIN. RANDALL E		
350 EAST M	ICHIGAN AVENUE		ART UNIT	PAPER NUMBER	
KALAMAZC	OO, MI 49007		1744		
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summary	09/913,350	DOAT, ARNAUD	•
Office Action Summary	Examiner	Art Unit	-
	Randall Chin	1744	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence address	;
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication if the period for reply specified above is less than thirty (30) days, and if NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by signal and the set of	JN. R 1.136(a). In no event, however, may a rol. a reply within the statutory minimum of thirt priod will apply and will expire SIX (6) MON	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communi	cation.
1) Responsive to communication(s) filed on	12 October 2004		
0-1	This action is non-final.		
3) Since this application is in condition for all	OWANCE except for formal mot	tors proposition as to the	
closed in accordance with the practice und	der <i>Ex parte Quayle</i> , 1935 C.E). 11, 453 O.G. 213.	its is
4)⊠ Claim(s) <u>20-35 and 37-40</u> is/are pending ir	the application		
4a) Of the above claim(s) is/are without	drawn from consideration		
5) Claim(s) is/are allowed.	Grawn from Consideration.	•	
6)⊠ Claim(s) <u>20-26,28-35 and 37-40</u> is/are reject	rtad		
7)⊠ Claim(s) <u>27 is</u> is/are objected to.	Aeu.		
8) Claim(s) are subject to restriction and	d/or alaction in		
Application Papers	d/or election requirement.		
9)☐ The specification is objected to by the Exam	iner.	·	
10)☐ The drawing(s) filed on is/are: a)☐ ac		e Evaminor	
Applicant may not request that any objection to	the drawing(s) be held in abevar	oce See 37 CER 1 85(a)	•
11) The proposed drawing correction filed on	is: a)□ approved b)□ dis		
If approved, corrected drawings are required in	reply to this Office action.	approved by the Examiner.	
12)☐ The oath or declaration is objected to by the	Examiner.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C. &	119(a)-(d) or (f)	
a)⊠ All b)□ Some * c)□ None of:	, , , , , , , , , , , , , , , , , , , ,	(i).	
 Certified copies of the priority docume 	ents have been received		
2. Certified copies of the priority docume		olication No	
3. Copies of the certified copies of the pr	iority documents have been re	ereived in this National Stone	
* See the attached detailed Office action for a li	st of the certified copies not re	ceived.	
14) Acknowledgment is made of a claim for domes	stic priority under 35 U.S.C. §	119(e) (to a provisional applica	ation).
a) ☐ The translation of the foreign language p 15)☐ Acknowledgment is made of a claim for dome	rovisional application has been	n received	,
Attachment(s)		· · · · · · · · · · · · · · · · · · ·	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	6\1 N=4:== -#1e	mmary (PTO-413) Paper No(s) ormal Patent Application (PTO-152)	
3. Patent and Trademark Office TOL-326 (Rev. 04-01) Office A	Action Summary	Part of Paper No. 40040	

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DETAILED ACTION

In view of the request for reconsideration filed by Applicant on October 12, 2004, the finality of the Office Action mailed May 11, 2004 is withdrawn and action upon all claims follows.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 20-26 and 28-40 are rejected under 35 U.S.C. 102(a) as being anticipated by Cano '190.

Cano '190 teaches various embodiments, <u>particularly the embodiments of</u>

Figs. 8, 10 or 12, of elongate form, comprising a toothbrush with toothbrush bristles (if such implement is chosen) wherein on a flat horizontal support 50, there is at least one position of stable equilibrium in which the longitudinal direction of the brush is essentially parallel to the support and the bristles lie at a distance from the support and extend towards the support (if a user orients the bristles in this <u>downwards</u>

direction), wherein the position(s) of stable equilibrium would be the only position(s) of stable equilibrium of the toothbrush on the support due to the flat sides 107 (Fig. 8).

As for claim 21, the Figs. 8 or 12 embodiments show an arrangement where there is only one position of stable equilibrium.

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As for claim 22, there would be a distal portion and a proximal portion in Fig. 8 extending between the bristles and distal portion in the longitudinal direction, and an intermediate portion therebetween such that the distal and proximal portions constitute the portions of contact of the toothbrush with the flat support and the intermediate portion lying at a distance for the support.

As for claims 23 and 24, there would be only a single point of contact of the proximal portion with the support in the position of stable equilibrium. Claims 23 and 24 do not recite only a single point of contact but simply that it is a "single point of contact."

With respect to claim 25, the proximal portion (Figs. 8 or 12) is of a generally flat shape.

As for claim 26, the proximal portion is of generally flat shape and in a plane essentially perpendicular to the longitudinal direction of the toothbrush (Fig. 8).

As for claim 28, Fig. 10 shows an off-center proximal portion with respect to the central longitudinal axis of the toothbrush. With Fig. 10, even if there are three positions of stable equilibrium, if a user orients the toothbrush bristles towards the support, the position(s) of stable equilibrium would still be the "only position(s) of stable equilibrium of the toothbrush on the support."

As for claim 29, Fig. 8 would show the proximal portion projecting from the handle opposite another side of the handle supporting the bristles.

As for claim 30, Fig. 8 also shows the proximal portion projects from the handle all the way around the longitudinal axis of the toothbrush.

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As for claims 31 and 32, in a broad sense, the proximal portion forms with the handle a "re-entrant" edge on a side of the proximal portion situated toward the bristles or distal portion. Any portion can be considered an "edge."

As for claim 33, the proximal portion has an elastomeric outer face since it is made from rubber or an elastomeric plastic (see col.3, line 65 to col.4, lines 1-19).

With respect to claim 34, the Fig.10 embodiment demonstrates a distal portion shape where there would be two points of contact with the support.

As for claim 35, the bottom surface of the distal portion is flat and is generally parallel to the longitudinal direction of the toothbrush.

Cano '190 teaches with respect to claim 37 in the Fig.10 embodiment a toothbrush of elongate form, comprising bristles wherein when the toothbrush is placed in any initial position on a flat horizontal support, the toothbrush will spontaneously adopt a stable position in which the longitudinal direction of the brush is essentially parallel to the support and the bristles lie at a distance from the support and extend towards the support (if a user orients the bristles in this downwards direction). With Fig. 10, even if there are three positions of stable equilibrium, if a user orients the toothbrush bristles towards the support, the position(s) of stable equilibrium would still be the "only position(s) of stable equilibrium of the toothbrush on the support."

As for claim 38, the stable position or orientation will always be the same, whatever the initial position will be in the Fig.10 embodiment.

Cano '190 also meets newly added claims 39 and 40 for similar reasons as mentioned above.

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3. (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 7. Claims 20-24, 29-32, 37 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lodato '796 in view of Switzerland 180027.

The patent to Lodato '796 discloses in Fig. 1 and 2A-2C a toothbrush 10 of elongate form, comprising bristles 16 wherein on a flat horizontal support 20, there is at least one position of stable equilibrium in which the longitudinal direction of the brush is essentially parallel to the support and the bristles lie at a distance from the support wherein the position(s) of stable equilibrium would be the only position(s) of stable equilibrium of the toothbrush on the support. Lodato '796 teaches all of the recited subject matter with the exception of the bristles extending towards the support. Switzerland 180027 discloses a toothbrush arrangement wherein bristles could extend

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either towards, away or partially away (i.e., side arrangement of Fig. 3) from a horizontal support when not in use. It would have been obvious to one of ordinary skill in the art to have modified Lodato's bristle arrangement such that the bristles extend towards the support as suggested by Switzerland 180027 for the purposes of preventing the bristles from coming into contact with other objects or just to simply permit improved drainage of water by gravity from the bristles after usage.

As for claim 21, there is only one position of stable equilibrium.

As for claim 22, there is a distal portion B and a proximal portion A extending between the bristles and distal portion in the longitudinal direction, and an intermediate portion therebetween such that the distal and proximal portions constitute the portions of contact of the toothbrush with the flat support and the intermediate portion lying at a distance for the support.

As for claims 23 and 24, there would be only a single point of contact of the proximal portion with the support in the position of stable equilibrium.

As for claim 29, the proximal portion A projects from a side of the handle opposite another side of the handle supporting the bristles in the modified Lodato device.

As for claim 30, the proximal portion projects from the handle all the way around the longitudinal axis of the toothbrush.

As for claims 31 and 32, in a broad sense, the proximal portion forms with the handle a "re-entrant" edge on a side of the proximal portion situated toward the bristles or distal portion. Any portion can be considered an "edge."

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The modified Lodato device (i.e., in combination with Switzerland 180027) teaches a toothbrush of elongate form, comprising bristles wherein when the toothbrush is placed in any initial position on a flat horizontal support, the toothbrush will spontaneously adopt a stable position in which the longitudinal direction of the brush is essentially parallel to the support and the bristles lie at a distance from the support and extend towards the support.

As for claim 38, the stable position or orientation will always be the same, whatever the initial position will be.

The modified Lodato device (i.e., in combination with Switzerland 180027) also meets newly added claims 39 and 40 for similar reasons as mentioned above.

Allowable Subject Matter

1. Claim 27 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

8. Applicant's arguments filed April 24, 2004 have been fully considered but they are not persuasive.

Applicant's arguments have been considered.

With respect to the Cano '190 reference, Applicant's arguments that Cano '190 teaches an implement handle grip which may include optional features which allow the

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expanded implement handle to have the improved function and that Cano '190 does not disclose a toothbrush having the features of the instantly claimed invention is unpersuasive. It should be pointed out that one independent claim 20 uses languages reciting that the toothbrush "exhibits", on a flat horizontal support the position(s) of stable equilibrium as opposed to the toothbrush "having" or "comprising" certain features. Moreover, independent claim 37 merely uses language such as "when the toothbrush is placed in any position on a flat horizontal support, the toothbrush spontaneously adopts a stable position...". Thus, Applicant's argument is not persuasive given the type of language actually recited by claims 20 and 37, for example. Notwithstanding the present language of claims 20-35 and 37-40 is not deemed to define over Cano's teaching. The fact that Cano may teach an optional feature or grip that fits onto a toothbrush still results in a "toothbrush" having the claimed features (i.e., elongate form and bristles) in the final product. The bristle orientation, as stated above, is deemed to be within the level of ordinary skill and merely depends on the toothbrush orientation in the grip.

As for Lodato '796, as stated above, it would have been obvious to one of ordinary skill in the art to have modified Lodato's bristle arrangement such that the bristles extend towards the support as suggested by Switzerland 180027 for the purposes of preventing the bristles from coming into contact with other objects or just to simply permit improved drainage of water by gravity from the bristles after usage. It will be pointed out that Lodato '796, the primary reference applied, clearly teaches a toothbrush having or exhibiting only one position of equilibrium. To have simply modified

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Lodato such that the bristles actually extend towards the support as opposed to away from it is within the level of one skilled in the art given the teaching to Switzerland 180027. In response to applicant's argument that there is no suggestion to combine the Lodato '796 and Switzerland 180027, the Examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). However, there is no requirement that a motivation to make the modification be expressly articulated. The test for combining references is what the combination of disclosures taken as a whole would suggest to one of ordinary skill in the art. In re McLaughlin, 170 USPQ 209 (CCPA 1971). References are evaluated by what they suggest to one versed in the art, rather than by their specific disclosures. In re Bozek, 163 USPQ 545 (CCPA) 1969. In this case, given Switzerland 180027 and Lodato '796, taken as a whole, orienting the bristles towards the support would be obvious for purposes of preventing the bristles from coming into contact with other objects or just to simply permit improved drainage of water by gravity from the bristles after usage. Switzerland 180027 simply teaches various alternative bristle configurations or orientations. To state that when viewing Switzerland 180027 and Lodato '796, taken as a whole, one skilled in the art would never realize orienting Lodato's bristles so they can extend towards the support as opposed to away from the support is unreasonable, particularly in view of the fact that

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Switzerland 180027 already teaches various positions that the bristles could be oriented when at rest on a support.

10. Any inquiry concerning this communication or earlier communication from the Examiner should be directed to Randall Chin whose telephone number is (571) 272-1270. The Examiner can normally be reached on Monday through Thursday and every other Friday.

If attempts to reach the Examiner are unsuccessful, the Examiner's supervisor, Robert Warden, can be reached at (571) 272-1281. The number for Technology Center 1700 is (571) 272-1700.

The central fax number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

R. Chin

Randall Chin Primary Examiner